PATENT

BUS FILTER FOR MEMORY ADDRESS TRANSLATION

ABSTRACT OF THE DISCLOSURE

A bus filter and filtering method for translating between virtual and physical memory

addresses. The bus filter may be used to couple a processing device, such as an

accelerator, to a system having a core processor and an external memory unit coupled

by a bus.

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The bus filter includes a first bus interface connected to the system bus for

receiving a virtual memory address and a second interface connected to the system

bus for transmitting a physical memory address. An address translation unit, such as a

translation lookaside buffer, determines the physical memory address from the virtual

memory address.

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